

Title (en)

DRY CITRUS FIBERS AND USES THEREOF

Title (de)

TROCKENE ZITRUSFASERN UND VERWENDUNGEN DAVON

Title (fr)

FIBRES D'AGRUMES SÈCHES ET LEURS UTILISATIONS

Publication

**EP 4230051 A2 20230823 (EN)**

Application

**EP 23161478 A 20160727**

Priority

- EP 15178987 A 20150730
- EP 16754027 A 20160727
- US 2016044226 W 20160727

Abstract (en)

The invention relates to citrus fibers and citrus fibers based compositions in dry form and in particular to such fibers and compositions which are readily dispersible. The invention further relates to a method for manufacturing said fibers and compositions and food compositions comprising said fibers and compositions.

IPC 8 full level

**A23F 3/16** (2006.01); **A23L 2/52** (2006.01); **A23L 19/00** (2016.01); **A23L 33/22** (2016.01); **A23P 10/40** (2016.01); **C11D 3/382** (2006.01)

CPC (source: EP RU US)

**A23F 3/16** (2013.01 - EP); **A23F 3/163** (2013.01 - EP US); **A23L 2/52** (2013.01 - EP US); **A23L 19/00** (2016.08 - RU);  
**A23L 19/07** (2016.08 - EP US); **A23L 29/206** (2016.08 - RU); **A23L 33/105** (2016.08 - US); **A23L 33/21** (2016.08 - RU);  
**A23L 33/22** (2016.08 - EP US); **A23P 10/40** (2016.08 - EP US); **A61K 36/752** (2013.01 - US); **C11D 3/382** (2013.01 - EP US)

Citation (applicant)

- WO 2006033697 A1 20060330 - CARGILL INC [US], et al
- WO 2012016190 A1 20120202 - CARGILL INC [US], et al
- WO 2013109721 A2 20130725 - CARGILL INC [US], et al
- WO 2012016201 A2 20120202 - CARGILL INC [US], et al
- US 5964983 A 19991012 - DINAND ELISABETH [FR], et al
- US 6485767 B1 20021126 - CANTIANI ROBERT [FR], et al
- US 6306207 B2 20011023 - CANTIANI ROBERT [FR], et al
- CARR, H.Y.PURCELL, E.M.: "Effects of diffusion on free precession in nuclear magnetic resonance experiments", PHYSICAL REVIEW, vol. 94, 1954, pages 630 - 638, XP055004628, DOI: 10.1103/PhysRev.94.630
- MEIBOOM, S.GILL, D.: "/Modified spin-echo method for measuring nuclear relaxation times", REVIEW OF SCIENTIFIC INSTRUMENTS, vol. 29, 1958, pages 688 - 691
- SCHWARTZPERRY: "Interscience", 1949, article "Surface Active Agents"
- SCHWARTZPERRYBERCH, INTERSCIENCE, 1958
- "McCutcheon's Emulsifiers and Detergents", 1981, MANUFACTURING CONFECTIONERS COMPANY
- SYNAPSE INFORMATION RESOURCES, 2008
- MEIBOOM, S.GILL, D.: "Modified spin-echo method for measuring nuclear relaxation times", REVIEW OF SCIENTIFIC INSTRUMENTS, vol. 29, 1958, pages 688 - 691
- PEDERSEN, H.T.BRO, R.ENGESEN, S.B.: "Towards rapid and unique curve resolution of low-field NMR relaxation data: trilinear SLICING versus two-dimensional curve fitting", JOURNAL OF MAGNETIC RESONANCE, vol. 157, no. 1, August 2002 (2002-08-01), pages 141 - 155, XP004408059, DOI: 10.1006/jmre.2002.2570
- K.R. BROWNSTEIN, E. TARR, JOURNAL OF MAGNETIC RESONANCE, vol. 26, April 1977 (1977-04-01), pages 17 - 24

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

DOCDB simple family (publication)

**WO 2017019752 A1 20170202**; AR 107138 A1 20180328; AU 2016298104 A1 20180201; AU 2016298104 B2 20200730;  
BR 112018001449 A2 20180911; BR 112018001449 B1 20230307; CA 2992310 A1 20170202; CL 2018000255 A1 20180706;  
CN 107920563 A 20180417; DK 3328211 T3 20240129; EP 3328211 A1 20180606; EP 3328211 B1 20240110; EP 4230051 A2 20230823;  
EP 4230051 A3 20230913; MX 2018000982 A 20180607; PH 12018500190 A1 20180730; PH 12018500190 B1 20180730;  
RU 2018107114 A 20190828; RU 2018107114 A3 20200123; RU 2728605 C2 20200730; US 10834953 B2 20201117;  
US 2019053528 A1 20190221; US 2021030046 A1 20210204; US 2021037873 A1 20210211; US 2021037874 A1 20210211

DOCDB simple family (application)

**US 2016044226 W 20160727**; AR P160102306 A 20160728; AU 2016298104 A 20160727; BR 112018001449 A 20160727;  
CA 2992310 A 20160727; CL 2018000255 A 20180129; CN 201680046388 A 20160727; DK 16754027 T 20160727; EP 16754027 A 20160727;  
EP 23161478 A 20160727; MX 2018000982 A 20160727; PH 12018500190 A 20180125; RU 2018107114 A 20160727;  
US 201615748781 A 20160727; US 202017075352 A 20201020; US 202017075374 A 20201020; US 202017075395 A 20201020